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November 13, 2009

**VIA UPS OVERNIGHT**

Gail Mitchell, Deputy Director  
Water Protection Division  
U.S. EPA Region 4  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, Georgia 30303-8960

**Re: October 6, 2009, Information Request – Section 308 of the Clean  
Water Act - Dalton Utilities Land Application System**

Dear Ms. Mitchell:

Enclosed with this letter is information from Dalton Utilities in response to EPA's October 6, 2009, Section 308 of the Clean Water Act request (the "Request") addressed to Mr. Don Cope, President and CEO of Dalton Utilities. The enclosures are a letter dated November 12, 2009, with certification signed pursuant to the Request and information responsive to Paragraph 2 of Enclosure A, final **Private Drinking Water Well Survey Results**.

Please contact me if have any questions regarding the information supplied pursuant to the Request.

Sincerely,  


Lee A. DeHihns, III

LAD:gba  
Enclosures

LEGAL02/31578197v5



November 12, 2009

Ms. Gail Mitchell, Deputy Director  
Clean Water Enforcement Branch  
Water Protection Division  
U.S. Environmental Protection Agency, Region 4  
61 Forsyth Street, SW  
Atlanta, GA 30303-8960

Re: Private Drinking Water Well Survey Results

Dear Ms. Mitchell,

In accordance with the Information Request pursuant to Section 308 of the Clean Water Act dated October 6, 2009, Dalton Utilities is submitting the final analytical results received for the Private Drinking Water Well Survey. The results are contained in Attachment A which is provided herein as bound reports titled Test America Laboratories, Inc. Analytical Report on Perfluorocarbon (PFC) Analysis Lot # D9I180169 which contains 719 pages.

As stipulated in the aforementioned 308 letter, Dalton Utilities will provide additional results on the private drinking water well survey within five days of receiving the final analytical reports.

If you have any questions, please contact me at 706-529-1091 or [dcope@util.com](mailto:dcope@util.com).

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false*

Ms. Gail Mitchell  
November 12, 2009  
Page 2 of 2

*information, including the possibility of fine and imprisonment for knowing violations.*

Sincerely,



Don Cope  
President & CEO

Attachment

c: Mr. Allen Barnes, Georgia Environmental Protection Division (cover letter only)  
Dr. Marlin Gottschalk, Sustainability Division Georgia Department of Natural Resources (cover letter only)  
Dr. Bert Langley, Georgia Environmental Protection Division (cover letter only)  
Lee A. DeHihns, Esq.

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

**ANALYTICAL REPORT**

**Perfluorocarbon (PFC) Analysis**

**Lot #: D9I180169**

**Dena Haverland**

**Dalton Utilities  
1200 V.D. Parrot Jr. Parkway  
Dalton, GA 30721**

*Elijah En*  
*for: Michelle A. Johnston*  
*Project Manager*

**October 21, 2009**

## Case Narrative

D9I180169

TestAmerica Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the methods summary page in accordance with the methods indicated. Dilution factors and footnotes are provided on each datasheet to assist in the interpretation of the results.

The results relate only to the samples in this report and meet all requirements of NELAC. All data have been reviewed for compliance with the laboratory QA/QC plan and have found to be compliant with laboratory protocols with any exceptions noted below.

Please note that Non-Detect (ND) results have been evaluated down to the Method Detection Limit (MDL) and should be considered ND at the MDL. Unless otherwise noted, results for solids have been dry weight corrected.

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### **Sample Arrival and Receipt**

The following report contains the analytical results for nineteen samples received at TestAmerica Denver on September 18, 2009, according to documented sample acceptance procedures. The samples were received in good condition at a temperature of 3.6°C.

No anomalies were encountered during sample receipt.

### **Standards**

Analytical standards were prepared using commercially available certified solutions containing all compounds of interest.

The mass labeled compounds 13C4 PFBA, 13C2 PFHxA, 18O2 PFHxS, 13C4 PFOA, 13C4 PFOS, 13C5 PFNA, 13C2 PFDA, 13C2 PFUnA, 13C2 PFDoA, and D3 MeFOSA were introduced at the extraction step and were used for internal standards for the quantitation of the target compounds.

### **Sample Extraction and Analysis**

The samples presented in this report were extracted for the target analytes by TestAmerica Denver's Standard Operating Procedure (SOP) DV-OP-0019 and analyzed for the target analytes by TestAmerica Denver's SOP DV-LC-0012.

### **Method QC Samples**

The Method Blank is processed reagent water spiked with internal standard and prepared with each batch of 20 samples of the same matrix. The method blanks were non-detect at the reporting limits for the target analytes.

Each batch is prepared with low and mid level Laboratory Control Samples (LCS). The LCS recoveries for both levels were within established control limits, with the exception of the items noted in section Analytical Comments.

### **Analytical Comments**

The organic preparation chemist noted that the following samples nearly clogged the extraction cartridge during the FOSA extraction process associated with QC batch 9264543: #100 366

Lot #: D9I180169

KIRBY YOUNG RD, #103 9458 HWY 225, #106 383 CENTER HILL CHURCH RD, #107 440 FOX BRIDGE RD, #108 378 FOX BRIDGE RD, #112 240 MATLOCK RD and DUP.

The Standard Operating Procedure (SOP) was altered slightly in the sample preparation for FOSA. Sodium hydroxide was added to all nineteen samples to obtain a pH of 14 instead of the SOP required <2. The basic pH is generating better internal standard recoveries for MeFOSA.

Due to low internal standard recoveries in samples in QC batch 9263042, samples #102 9532 HWY 225, #104 1585 CAGLE RD, #107 440 FOX BRIDGE RD, #112 240 MATLOCK RD and DUP #3 were re-extracted out of the laboratory prescribed hold time and reanalyzed in QC batches 9267578 and 9273458. Both batches are included in this report. Please note the sample results should be considered estimated.

Due to low internal standard recoveries in samples in QC batch 9264543, samples #104 1585 CAGLE RD, #106 383 CENTER HILL CHURCH RD and DUP #4 were re-extracted out of the laboratory prescribed hold time and reanalyzed in QC batch 9269080. Both batches are included in this report. Please note the sample results should be considered estimated.

The internal standard recoveries for 13C2 PFUnA and 13C2 PFDoA associated with QC batch 9263042 were recovered below 50% in samples #102 9532 HWY 225, #104 1585 CAGLE RD, #107 440 FOX BRIDGE RD, #112 240 MATLOCK RD and DUP #3. This is an indicator that data may be biased high. Upon re-extraction and reanalysis in QC batches 9267578 and 9273458, internal standard recoveries were 100% in control. Both the original and reanalysis data have been provided, as re-extraction was unavoidably performed outside the laboratory recommended sample holding time.

The internal standard recoveries for MeFOSA associated with QC batch 9264543 were recovered below 50% in samples #104 1585 CAGLE RD and #106 383 CENTER HILL CHURCH RD. This is an indicator that data may be biased high. Upon re-extraction and reanalysis in QC batch 9269080, internal standard recoveries were 100% in control. Both the original and reanalysis data have been provided, as re-extraction was unavoidably performed outside the laboratory recommended sample holding time.

The internal standard recovery for MeFOSA associated with QC batch 9264543 was recovered below 50% in sample DUP #4. This is an indicator that data may be biased high. Upon re-extraction and reanalysis in QC batch 9269080, the internal standard recovery was still recovered below QC limits in sample DUP #4. In addition, the organic preparation chemist noted that sample DUP #4 required two cartridges for extraction, as the first cartridge clogged. Only the original data has been reported as the internal standard failure is most likely due to matrix interference.

A low level of Perfluorohexanoic acid (PFHxA) is present in the method blank associated with QC batch 9267578. The concentration in the method blank is not present at a level greater than the reporting limit; therefore, corrective action is deemed unnecessary.

Due to a limitation in the LIMS system, the low-level LCS associated with QC batch 9273458 reported the percent recovery for Perfluorododecanoic Acid (PFDoA) as 0.0%. PFDoA was recovered within the control limits (50-150%) at 65%. As the compound was detected below

Lot #: D9I180169

the Method Detection Limit (MDL) of 0.020 ug/L, the system reports the percent recoveries as 0.0%.

The mid-level LCS analysis associated with QC batch 9264543 exhibited a percent recovery above the QC control limits for FOSA. This is an indicator that data may be biased high. As no detectable concentrations of FOSA are present in the associated samples, corrective action is deemed unnecessary.

The method required MS/MSD could not be performed for QC batches 9263042, 9267578, 9264543 and 9269080, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

No other anomalies were observed.

## EXECUTIVE SUMMARY - Detection Highlights

D9I180169

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>#99 743 ARTIS CHARLES RD 09/16/09 15:15 002</b>				
Perfluorobutanoic acid (PFBA)	0.032	0.020	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.024	0.020	ug/L	DEN -LC-0012
<b>#104 1585 CAGLE RD 09/16/09 17:59 007</b>				
Perfluoroctanoic Acid	0.017 J	0.020	ug/L	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	0.011 J	0.020	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.0096 J	0.020	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.0049 J	0.020	ug/L	DEN -LC-0012
<b>#111 705 PEEK RD 09/17/09 14:48 014</b>				
Perfluoroctanoic Acid	0.084	0.020	ug/L	DEN -LC-0012
Perfluoroctanesulfonate	0.056	0.020	ug/L	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	0.017 J	0.020	ug/L	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	0.035	0.030	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.061	0.020	ug/L	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	0.040	0.020	ug/L	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	0.037	0.020	ug/L	DEN -LC-0012
Perfluorohexane sulfonate (PFH)	0.056	0.030	ug/L	DEN -LC-0012
<b>DUP #3 09/17/09 018</b>				
Perfluoroctanoic Acid	0.089	0.020	ug/L	DEN -LC-0012
Perfluoroctanesulfonate	0.062	0.020	ug/L	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	0.017 J	0.020	ug/L	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	0.039	0.030	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.065	0.020	ug/L	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	0.047	0.020	ug/L	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	0.038	0.020	ug/L	DEN -LC-0012
Perfluorohexane sulfonate (PFH)	0.068	0.030	ug/L	DEN -LC-0012
Perfluoroctanoic Acid	0.072	0.020	ug/L	DEN -LC-0012
Perfluoroctanesulfonate	0.057	0.020	ug/L	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	0.021	0.020	ug/L	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	0.039	0.030	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.061 B	0.020	ug/L	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	0.050	0.020	ug/L	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	0.043	0.020	ug/L	DEN -LC-0012
Perfluorohexane sulfonate (PFH)	0.070	0.030	ug/L	DEN -LC-0012

## METHODS SUMMARY

D9II180169

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
LC/MS/MS PFCs	DEN -LC-0012	SW846 FOSA spec

### References:

DEN      Severn Trent Laboratores, Denver, Facility Standard  
Operating Procedure.

## METHOD / ANALYST SUMMARY

D9I180169

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
DEN -LC-0012	Jacqueline Bonnett	003601

### References:

DEN      Severn Trent Laboratores, Denver, Facility Standard  
Operating Procedure.

## SAMPLE SUMMARY

D9I180169

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LK29H	001	#98 1258 MILLER RD	09/16/09	13:57
LK29X	002	#99 743 ARTIS CHARLES RD	09/16/09	15:15
LK291	003	#100 366 KIRBY YOUNG RD	09/16/09	15:42
LK295	004	#101 301 BUFORD RIDLEY RD	09/16/09	16:04
LK3AA	005	#102 9532 HWY 225	09/16/09	16:43
LK3AE	006	#103 9458 HWY 225	09/16/09	17:14
LK3AM	007	#104 1585 CAGLE RD	09/16/09	17:59
LK3AT	008	#105 4249 HWY 225	09/16/09	18:45
LK3A4	009	#106 383 CENTER HILL CHURCH RD	09/16/09	18:59
LK3A6	010	#107 440 FOX BRIDGE RD	09/16/09	19:39
LK3CD	011	#108 378 FOX BRIDGE RD	09/16/09	19:57
LK3CG	012	#109 149 EDD RIDLEY RD	09/16/09	20:11
LK3CL	013	#110 85 MEADOW RD	09/16/09	20:28
LK3CR	014	#111 705 PEEK RD	09/17/09	14:48
LK3CX	015	#112 240 MATLOCK RD	09/17/09	15:19
LK3DD	016	DUP	09/16/09	
LK3DL	017	DUP #2	09/17/09	
LK3DQ	018	DUP #3	09/17/09	
LK3DR	019	DUP #4	09/17/09	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Dalton Utilities

Client Sample ID: #98 1258 MILLER RD

HPLC

Lot-Sample #....: D9I180169-001 Work Order #....: LK29H1AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 13:57 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 04:10  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0069
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.015
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.018
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.015
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0082
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0070
xS)				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
		(50 - 200)	(50 - 200)
13C4 PFOA	110	(50 - 200)	(50 - 200)
13C4 PFOS	69	(50 - 200)	(50 - 200)
13C4 PFBA	95	(50 - 200)	(50 - 200)
13C2 PFHxA	108	(50 - 200)	(50 - 200)
18O2 PFHxS	97	(50 - 200)	(50 - 200)
13C5 PFNA	86	(50 - 200)	(50 - 200)
13C2 PFDA	70	(50 - 200)	(50 - 200)
13C2 PFUnA	62	(50 - 200)	(50 - 200)
13C2 PFDoA	65	(50 - 200)	(50 - 200)

Dalton Utilities

Client Sample ID: #98 1258 MILLER RD

HPLC

Lot-Sample #....: D9I180169-001 Work Order #....: LK29H1AC Matrix.....: WATER  
Date Sampled...: 09/16/09 13:57 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 00:17  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY	LIMITS	
MeFOSA	66		(50 - 200)	

Dalton Utilities

Client Sample ID: #99 743 ARTIS CHARLES RD

HPLC

Lot-Sample #....: D9I180169-002 Work Order #....: LK29X1AA Matrix.....: WATER  
 Date Sampled...: 09/16/09 15:15 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 04:26  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
<b>Perfluorobutanoic acid (PFBA)</b>	<b>0.032</b>	<b>0.020</b>	<b>ug/L</b>	<b>0.0098</b>
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.024</b>	<b>0.020</b>	<b>ug/L</b>	<b>0.0029</b>
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUnA)	ND	0.020	ug/L	0.0069
A)				
Perfluorododecanoic acid (PFDoA)	ND	0.020	ug/L	0.015
A)				
Perfluorotridecanoic acid (PFTriA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (PFTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFBs)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFHxS)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
		(50 - 200)	(50 - 200)
13C4 PFOA	114	(50 - 200)	(50 - 200)
13C4 PFOS	78	(50 - 200)	(50 - 200)
13C4 PFBA	97	(50 - 200)	(50 - 200)
13C2 PFHxA	107	(50 - 200)	(50 - 200)
18O2 PFHxS	99	(50 - 200)	(50 - 200)
13C5 PFNA	93	(50 - 200)	(50 - 200)
13C2 PFDA	78	(50 - 200)	(50 - 200)
13C2 PFUnA	73	(50 - 200)	(50 - 200)
13C2 PFDoA	70	(50 - 200)	(50 - 200)

Dalton Utilities

Client Sample ID: #99 743 ARTIS CHARLES RD

HPLC

Lot-Sample #....: D9I180169-002 Work Order #....: LK29X1AC Matrix.....: WATER  
Date Sampled...: 09/16/09 15:15 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 00:25  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	75	(50 - 200)	

Dalton Utilities

Client Sample ID: #100 366 KIRBY YOUNG RD

HPLC

Lot-Sample #....: D9I180169-003 Work Order #....: LK2911AA Matrix.....: WATER  
 Date Sampled...: 09/16/09 15:42 Date Received..: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date..: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time..: 04:43  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluoroctanoic Acid	ND	0.020	ug/L	0.0098
Perfluoroctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xs)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	116	(50 - 200)
13C4 PFOS	78	(50 - 200)
13C4 PFBA	99	(50 - 200)
13C2 PFHxA	112	(50 - 200)
18O2 PFHxS	103	(50 - 200)
13C5 PFNA	96	(50 - 200)
13C2 PFDA	77	(50 - 200)
13C2 PFUnA	73	(50 - 200)
13C2 PFDoA	71	(50 - 200)

Dalton Utilities

Client Sample ID: #100 366 KIRBY YOUNG RD

HPLC

Lot-Sample #....: D9II180169-003 Work Order #....: LK2911AC Matrix.....: WATER  
Date Sampled...: 09/16/09 15:42 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 00:32  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	(50 - 200)
MeFOSA	59		

Dalton Utilities

Client Sample ID: #101 301 BUFORD RIDLEY RD

HPLC

Lot-Sample #....: D9II180169-004 Work Order #....: LK2951AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 16:04 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 04:59  
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUnA)	ND	0.020	ug/L	0.0069
A)				
Perfluorododecanoic acid (PFDoA)	ND	0.020	ug/L	0.015
A)				
Perfluorotridecanoic acid (PFTriA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (PFTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFBuS)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFHxS)	ND	0.030	ug/L	0.0070

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	116	(50 - 200)
13C4 PFOS	66	(50 - 200)
13C4 PFBA	98	(50 - 200)
13C2 PFHxA	108	(50 - 200)
18O2 PFHxS	96	(50 - 200)
13C5 PFNA	90	(50 - 200)
13C2 PFDA	62	(50 - 200)
13C2 PFUnA	53	(50 - 200)
13C2 PFDoA	51	(50 - 200)

Dalton Utilities

Client Sample ID: #101 301 BUFORD RIDLEY RD

HPLC

Lot-Sample #....: D9I180169-004 Work Order #....: LK2951AC Matrix.....: WATER  
Date Sampled...: 09/16/09 16:04 Date Received..: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 00:39  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluoroctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
MeFOSA	79	(50 - 200)		

Dalton Utilities

Client Sample ID: #102 9532 HWY 225

HPLC

Lot-Sample #....: D9II180169-005 Work Order #....: LK3AA1AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 16:43 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 05:15  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xs)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
		(50 - 200)	(50 - 200)
13C4 PFOA	92	(50 - 200)	(50 - 200)
13C4 PFOS	53	(50 - 200)	(50 - 200)
13C4 PFBA	83	(50 - 200)	(50 - 200)
13C2 PFHxA	97	(50 - 200)	(50 - 200)
18O2 PFHxS	81	(50 - 200)	(50 - 200)
13C5 PFNA	76	(50 - 200)	(50 - 200)
13C2 PFDA	51	(50 - 200)	(50 - 200)
13C2 PFUnA	45 *	(50 - 200)	(50 - 200)
13C2 PFDoA	44 *	(50 - 200)	(50 - 200)

NOTE(S) :

\* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #102 9532 HWY 225

HPLC

Lot-Sample #....: D9I180169-005 Work Order #....: LK3AA1AC Matrix.....: WATER  
Date Sampled....: 09/16/09 16:43 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 00:53  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
MeFOSA	71	(50 - 200)		

## Dalton Utilities

Client Sample ID: #102 9532 HWY 225

## HPLC

Lot-Sample #....: D9I180169-005 Work Order #....: LK3AA2AA Matrix.....: WATER  
 Date Sampled...: 09/16/09 16:43 Date Received..: 09/18/09  
 Prep Date.....: 09/24/09 Analysis Date...: 09/28/09  
 Prep Batch #....: 9267578 Analysis Time...: 03:46  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0069
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.015
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.018
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.015
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0082
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0070
xS)				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	114	(50 - 200)
13C4 PFOS	71	(50 - 200)
13C4 PFBA	72	(50 - 200)
13C2 PFHxA	104	(50 - 200)
18O2 PFHxS	80	(50 - 200)
13C5 PFNA	89	(50 - 200)
13C2 PFDA	78	(50 - 200)
13C2 PFUnA	62	(50 - 200)
13C2 PFDoA	71	(50 - 200)

## Dalton Utilities

Client Sample ID: #103 9458 HWY 225

## HPLC

Lot-Sample #....: D9II180169-006 Work Order #....: LK3AE1AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 17:14 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 05:31  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUnA)	ND	0.020	ug/L	0.0069
A)				
Perfluorododecanoic acid (PFDoA)	ND	0.020	ug/L	0.015
A)				
Perfluorotridecanoic acid (PFTriA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (PFTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFBs)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFHxS)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	96	(50 - 200)
13C4 PFOS	60	(50 - 200)
13C4 PFBA	86	(50 - 200)
13C2 PFHxA	94	(50 - 200)
18O2 PFHxS	83	(50 - 200)
13C5 PFNA	78	(50 - 200)
13C2 PFDA	61	(50 - 200)
13C2 PFUnA	59	(50 - 200)
13C2 PFDoA	54	(50 - 200)

Dalton Utilities

Client Sample ID: #103 9458 HWY 225

HPLC

Lot-Sample #....: D9I180169-006 Work Order #....: LK3AE1AC Matrix.....: WATER  
Date Sampled...: 09/16/09 17:14 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 01:00  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
<hr/>				
SURROGATE	PERCENT	RECOVERY		
MeFOSA	RECOVERY	LIMITS		
	71	(50 - 200)		

## Dalton Utilities

Client Sample ID: #104 1585 CAGLE RD

## HPLC

Lot-Sample #....: D9I180169-007 Work Order #....: LK3AM1AA  
 Date Sampled...: 09/16/09 17:59 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 06:03  
 Dilution Factor: 1

Matrix.....: WATER

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	0.017 J	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	0.011 J	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	0.0096 J	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (PFTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY</u>
		<u>LIMITS</u>
13C4 PFOA	91	(50 - 200)
13C4 PFOS	58	(50 - 200)
13C4 PFBA	83	(50 - 200)
13C2 PFHxA	91	(50 - 200)
18O2 PFHxS	80	(50 - 200)
13C5 PFNA	75	(50 - 200)
13C2 PFDA	55	(50 - 200)
13C2 PFUnA	48 *	(50 - 200)
13C2 PFDoA	46 *	(50 - 200)

NOTE (S) :

\* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: #104 1585 CAGLE RD

HPLC

Lot-Sample #....: D9I180169-007 Work Order #....: LK3AM1AC Matrix.....: WATER  
Date Sampled...: 09/16/09 17:59 Date Received..: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date..: 09/25/09  
Prep Batch #...: 9264543 Analysis Time..: 01:08  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
MePOSA	48 *	(50 - 200)		

NOTE(S) :

\* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #104 1585 CAGLE RD

HPLC

Lot-Sample #....: D9I180169-007 Work Order #....: LK3AM2AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 17:59 Date Received..: 09/18/09  
 Prep Date.....: 09/30/09 Analysis Date..: 10/18/09  
 Prep Batch #....: 9273458 Analysis Time..: 02:48  
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	0.0049 J	0.020	ug/L	0.0029
Perfluorohexanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	82	(50 - 200)
13C4 PFOS	72	(50 - 200)
13C4 PFBA	89	(50 - 200)
13C2 PFHxA	92	(50 - 200)
18O2 PFHxS	97	(50 - 200)
13C5 PFNA	90	(50 - 200)
13C2 PFDA	68	(50 - 200)
13C2 PFUnA	61	(50 - 200)
13C2 PFDaA	59	(50 - 200)

NOTE(S) :

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: #104 1585 CAGLE RD

HPLC

Lot-Sample #....: D9I180169-007 Work Order #....: LK3AM2AC Matrix.....: WATER  
Date Sampled...: 09/16/09 17:59 Date Received...: 09/18/09  
Prep Date.....: 09/26/09 Analysis Date...: 09/27/09  
Prep Batch #....: 9269080 Analysis Time...: 18:42  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
MeFOSA	68	(50 - 200)		

## Dalton Utilities

Client Sample ID: #105 4249 HWY 225

## HPLC

Lot-Sample #....: D9I180169-008 Work Order #....: LK3AT1AA Matrix.....: WATER  
 Date Sampled...: 09/16/09 18:45 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 06:19  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	98	(50 - 200)
13C4 PFOS	58	(50 - 200)
13C4 PFBA	84	(50 - 200)
13C2 PFHxA	92	(50 - 200)
18O2 PFHxS	83	(50 - 200)
13C5 PFNA	73	(50 - 200)
13C2 PFDA	56	(50 - 200)
13C2 PFUnA	53	(50 - 200)
13C2 PFDoA	52	(50 - 200)

Dalton Utilities

Client Sample ID: #105 4249 HWY 225

HPLC

Lot-Sample #....: D9I180169-008 Work Order #....: LK3AT1AC Matrix.....: WATER  
Date Sampled...: 09/16/09 18:45 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 01:15  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY	LIMITS	
MeFOSA	RECOVERY	(50 - 200)		
	51			

Dalton Utilities

Client Sample ID: #106 383 CENTER HILL CHURCH RD

HPLC

Lot-Sample #....: D9II180169-009 Work Order #....: LK3A41AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 18:59 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 06:35  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riaA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	88	(50 - 200)
13C4 PFOS	54	(50 - 200)
13C4 PFBA	84	(50 - 200)
13C2 PFHxA	90	(50 - 200)
18O2 PFHxS	79	(50 - 200)
13C5 PFNA	71	(50 - 200)
13C2 PFDA	57	(50 - 200)
13C2 PFUnA	51	(50 - 200)
13C2 PFDoA	53	(50 - 200)

Dalton Utilities

Client Sample ID: #106 383 CENTER HILL CHURCH RD

HPLC

Lot-Sample #....: D9I180169-009 Work Order #....: LK3A41AC Matrix.....: WATER  
Date Sampled....: 09/16/09 18:59 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time..: 01:22  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		MDL
		LIMIT	UNITS	
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT	RECOVERY	LIMITS
	RECOVERY		
MeFOSA	41 *	(50 - 200)	

NOTE (S) :

\* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #106 383 CENTER HILL CHURCH RD

HPLC

Lot-Sample #....: D9II180169-009 Work Order #....: LK3A42AC Matrix.....: WATER  
Date Sampled...: 09/16/09 18:59 Date Received..: 09/18/09  
Prep Date.....: 09/26/09 Analysis Date...: 09/27/09  
Prep Batch #....: 9269080 Analysis Time...: 18:49  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY	LIMITS	
MeFOSA	65	(50 - 200)		

## Dalton Utilities

Client Sample ID: #107 440 FOX BRIDGE RD

## HPLC

Lot-Sample #....: D9I180169-010 Work Order #....: LK3A61AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 19:39 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 06:51  
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riaA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	102	(50 - 200)
13C4 PFOS	58	(50 - 200)
13C4 PFBA	86	(50 - 200)
13C2 PFHxA	91	(50 - 200)
18O2 PFHxS	86	(50 - 200)
13C5 PFNA	77	(50 - 200)
13C2 PFDA	55	(50 - 200)
13C2 PFUnA	48 *	(50 - 200)
13C2 PFDoA	46 *	(50 - 200)

NOTE(S) :

\* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #107 440 FOX BRIDGE RD

HPLC

Lot-Sample #....: D9II180169-010 Work Order #....: LK3A61AC Matrix.....: WATER  
Date Sampled....: 09/16/09 19:39 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 01:29  
Dilution Factor: 1.

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	(50 - 200)
MeFOSA	60		

Dalton Utilities

Client Sample ID: #107 440 FOX BRIDGE RD

HPLC

Lot-Sample #....: D9II180169-010 Work Order #....: LK3A62AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 19:39 Date Received...: 09/18/09  
 Prep Date.....: 09/24/09 Analysis Date...: 09/28/09  
 Prep Batch #....: 9267578 Analysis Time...: 04:02  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xs)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	103	(50 - 200)
13C4 PFOS	63	(50 - 200)
13C4 PFBA	74	(50 - 200)
13C2 PFHxA	97	(50 - 200)
18O2 PFHxS	77	(50 - 200)
13C5 PFNA	79	(50 - 200)
13C2 PFDA	66	(50 - 200)
13C2 PFUnA	56	(50 - 200)
13C2 PFDoA	63	(50 - 200)

## Dalton Utilities

Client Sample ID: #108 378 FOX BRIDGE RD

## HPLC

Lot-Sample #....: D9I180169-011 Work Order #....: LK3CD1AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 19:57 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 07:07  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0069
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.015
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.018
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.015
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0082
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0070
xS)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	112	(50	- 200)
13C4 PFOS	65	(50	- 200)
13C4 PFBA	98	(50	- 200)
13C2 PFHxA	110	(50	- 200)
18O2 PFHxS	95	(50	- 200)
13C5 PFNA	84	(50	- 200)
13C2 PFDA	64	(50	- 200)
13C2 PFUnA	60	(50	- 200)
13C2 PFDoA	56	(50	- 200)

Dalton Utilities

Client Sample ID: #108 378 FOX BRIDGE RD

HPLC

Lot-Sample #....: D9I180169-011 Work Order #....: LK3CD1AC Matrix.....: WATER  
Date Sampled...: 09/16/09 19:57 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 01:36  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	66	(50 - 200)	

Dalton Utilities

Client Sample ID: #109 149 EDD RIDLEY RD

HPLC

Lot-Sample #....: D9II180169-012 Work Order #....: LK3CG1AA Matrix.....: WATER  
 Date Sampled....: 09/16/09 20:11 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time..: 07:23  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0069
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.015
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.018
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.015
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0082
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0070
xS)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	110	(50	- 200)
13C4 PFOS	64	(50	- 200)
13C4 PFBA	97	(50	- 200)
13C2 PFHxA	104	(50	- 200)
18O2 PFHxS	94	(50	- 200)
13C5 PFNA	92	(50	- 200)
13C2 PFDA	67	(50	- 200)
13C2 PFUnA	53	(50	- 200)
13C2 PFDoA	54	(50	- 200)

Dalton Utilities

Client Sample ID: #109 149 EDD RIDLEY RD

HPLC

Lot-Sample #....: D9I180169-012 Work Order #....: LK3CG1AC Matrix.....: WATER  
Date Sampled...: 09/16/09 20:11 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 01:43  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
		(50 - 200)	
MeFOSA	64	(50 - 200)	

## Dalton Utilities

Client Sample ID: #110 85 MEADOW RD

## HPLC

Lot-Sample #....: D9I180169-013 Work Order #....: LK3CL1AA Matrix.....: WATER  
 Date Sampled...: 09/16/09 20:28 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 07:39  
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xs)	ND	0.030	ug/L	0.0070

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY</u>
		<u>LIMITS</u>
13C4 PFOA	104	(50 - 200)
13C4 PFOS	67	(50 - 200)
13C4 PFBA	98	(50 - 200)
13C2 PFHxA	106	(50 - 200)
18O2 PFHxS	96	(50 - 200)
13C5 PFNA	89	(50 - 200)
13C2 PFDA	65	(50 - 200)
13C2 PFUnA	58	(50 - 200)
13C2 PFDoA	58	(50 - 200)

Dalton Utilities

Client Sample ID: #110 85 MEADOW RD

HPLC

Lot-Sample #: D9II180169-013 Work Order #: LK3CL1AC Matrix.....: WATER  
Date Sampled...: 09/16/09 20:28 Date Received..: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #: 9264543 Analysis Time..: 01:58  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT	RECOVERY	
		RECOVERY	LIMITS
MeFOSA	58	(50 - 200)	

## Dalton Utilities

Client Sample ID: #111 705 PEEK RD

HPLC

Lot-Sample #....: D9II180169-014 Work Order #....: LK3CR1AA Matrix.....: WATER  
 Date Sampled...: 09/17/09 14:48 Date Received...: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time...: 08:12  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	0.084	0.020	ug/L	0.0098
Perfluorooctanesulfonate	0.056	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	0.017 J	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	0.035	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	0.061	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	0.040	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (PFTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	0.037	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	0.056	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	118	(50 - 200)	
13C4 PFOS	78	(50 - 200)	
13C4 PFBA	100	(50 - 200)	
13C2 PFHxA	114	(50 - 200)	
18O2 PFHxS	102	(50 - 200)	
13C5 PFNA	95	(50 - 200)	
13C2 PFDA	75	(50 - 200)	
13C2 PFUnA	70	(50 - 200)	
13C2 PFDoA	72	(50 - 200)	

NOTE(S) :

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: #111 705 PEEK RD

HPLC

Lot-Sample #....: D9I180169-014 Work Order #....: LK3CR1AC Matrix.....: WATER  
Date Sampled...: 09/17/09 14:48 Date Received..: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date..: 09/25/09  
Prep Batch #....: 9264543 Analysis Time..: 02:05  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	68	(50 - 200)	

## Dalton Utilities

Client Sample ID: #112 240 MATLOCK RD

## HPLC

Lot-Sample #....: D9I180169-015 Work Order #....: LK3CX1AA Matrix.....: WATER  
 Date Sampled...: 09/17/09 15:19 Date Received..: 09/18/09  
 Prep Date.....: 09/20/09 Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042 Analysis Time..: 08:28  
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (PFTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	92	(50 - 200)
13C4 PFOS	53	(50 - 200)
13C4 PFBA	84	(50 - 200)
13C2 PFHxA	93	(50 - 200)
18O2 PFHxS	84	(50 - 200)
13C5 PFNA	71	(50 - 200)
13C2 PFDA	51	(50 - 200)
13C2 PFUnA	43 *	(50 - 200)
13C2 PFDoA	44 *	(50 - 200)

NOTE(S) :

- \* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #112 240 MATLOCK RD

HPLC

Lot-Sample #....: D9I180169-015 Work Order #....: LK3CX1AC Matrix.....: WATER  
Date Sampled...: 09/17/09 15:19 Date Received..: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #...: 9264543 Analysis Time..: 02:12  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
MeFOSA	52	(50 - 200)		

## Dalton Utilities

Client Sample ID: #112 240 MATLOCK RD

## HPLC

Lot-Sample #....: D9II180169-015 Work Order #....: LK3CX2AA Matrix.....: WATER  
 Date Sampled....: 09/17/09 15:19 Date Received...: 09/18/09  
 Prep Date.....: 09/24/09 Analysis Date...: 09/28/09  
 Prep Batch #....: 9267578 Analysis Time...: 04:18  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluorooctanoic acid (PFHpA)	ND	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (PFTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	121	(50 - 200)
13C4 PFOS	73	(50 - 200)
13C4 PFBA	78	(50 - 200)
13C2 PFHxA	109	(50 - 200)
18O2 PFHxS	87	(50 - 200)
13C5 PFNA	91	(50 - 200)
13C2 PFDA	80	(50 - 200)
13C2 PFUnA	61	(50 - 200)
13C2 PFDoA	72	(50 - 200)

## Dalton Utilities

Client Sample ID: DUP

## HPLC

Lot-Sample #....: D9I180169-016      Work Order #....: LK3DD1AA      Matrix.....: WATER  
 Date Sampled....: 09/16/09      Date Received...: 09/18/09  
 Prep Date.....: 09/20/09      Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042      Analysis Time...: 08:44  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xs)	ND	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	96	(50	- 200)
13C4 PFOS	63	(50	- 200)
13C4 PFBA	82	(50	- 200)
13C2 PFHxA	91	(50	- 200)
18O2 PFHxS	81	(50	- 200)
13C5 PFNA	74	(50	- 200)
13C2 PFDA	58	(50	- 200)
13C2 PFUnA	59	(50	- 200)
13C2 PFDoA	56	(50	- 200)

Dalton Utilities

Client Sample ID: DUP

HPLC

Lot-Sample #....: D9I180169-016      Work Order #....: LK3DD1AC      Matrix.....: WATER  
Date Sampled....: 09/16/09      Date Received...: 09/18/09  
Prep Date.....: 09/21/09      Analysis Date...: 09/25/09  
Prep Batch #....: 9264543      Analysis Time...: 02:19  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	52	(50 - 200)	

## Dalton Utilities

Client Sample ID: DUP #2

HPLC

Lot-Sample #....: D9I180169-017    Work Order #....: LK3DL1AA    Matrix.....: WATER  
 Date Sampled...: 09/17/09    Date Received...: 09/18/09  
 Prep Date.....: 09/20/09    Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042    Analysis Time...: 09:00  
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluoroctanoic Acid	ND	0.020	ug/L	0.0098
Perfluoroctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT ria)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	95	(50 - 200)
13C4 PFOS	63	(50 - 200)
13C4 PFBA	82	(50 - 200)
13C2 PFHxA	90	(50 - 200)
18O2 PFHxS	80	(50 - 200)
13C5 PFNA	79	(50 - 200)
13C2 PFDA	59	(50 - 200)
13C2 PFUnA	56	(50 - 200)
13C2 PFDoA	53	(50 - 200)

Dalton Utilities

Client Sample ID: DUP #2

HPLC

Lot-Sample #....: D9I180169-017 Work Order #....: LK3DL1AC Matrix.....: WATER  
Date Sampled...: 09/17/09 Date Received...: 09/18/09  
Prep Date.....: 09/21/09 Analysis Date...: 09/25/09  
Prep Batch #....: 9264543 Analysis Time...: 02:26  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MePOSA	65	(50 - 200)	

## Dalton Utilities

Client Sample ID: DUP #3

## HPLC

Lot-Sample #....: D9II180169-018      Work Order #....: LK3DQ1AA      Matrix.....: WATER  
 Date Sampled...: 09/17/09      Date Received...: 09/18/09  
 Prep Date.....: 09/20/09      Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042      Analysis Time...: 09:16  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	0.089	0.020	ug/L	0.0098
Perfluorooctanesulfonate	0.062	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	0.017 J	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	0.039	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	0.065	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHpA)	0.047	0.020	ug/L	0.013
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT ria)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFS S)	0.038	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	0.068	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	90	(50 - 200)
13C4 PFOS	56	(50 - 200)
13C4 PFBA	80	(50 - 200)
13C2 PFHxA	83	(50 - 200)
18O2 PFHxS	77	(50 - 200)
13C5 PFNA	68	(50 - 200)
13C2 PFDA	54	(50 - 200)
13C2 PFUnA	52	(50 - 200)
13C2 PFDoA	48 *	(50 - 200)

NOTE(S) :

\* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

## Dalton Utilities

Client Sample ID: DUP #3

HPLC

Lot-Sample #: D9II180169-018      Work Order #: LK3DQ1AC      Matrix.....: WATER  
 Date Sampled...: 09/17/09      Date Received.: 09/18/09  
 Prep Date.....: 09/21/09      Analysis Date..: 09/25/09  
 Prep Batch #: 9264543      Analysis Time..: 02:34  
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
		(50 - 200)	
MeFOSA	64		

## Dalton Utilities

Client Sample ID: DUP #3

## HPLC

Lot-Sample #....: D9I180169-018    Work Order #....: LK3DQ2AA    Matrix.....: WATER  
 Date Sampled...: 09/17/09    Date Received...: 09/18/09  
 Prep Date.....: 09/24/09    Analysis Date...: 09/28/09  
 Prep Batch #....: 9267578    Analysis Time...: 04:34  
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	0.072	0.020	ug/L	0.0098
Perfluorooctanesulfonate	0.057	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	0.021	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	0.039	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	0.061 B	0.020	ug/L	0.0029
Perfluoroheptanoic acid (PFHxA )	0.050	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUnA A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDoA A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFTriA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (PFTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFBS)	0.043	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFHS)	0.070	0.030	ug/L	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	116	(50 - 200)
13C4 PFOS	71	(50 - 200)
13C4 PFBA	77	(50 - 200)
13C2 PFHxA	107	(50 - 200)
18O2 PFHxS	85	(50 - 200)
13C5 PFNA	86	(50 - 200)
13C2 PFDA	73	(50 - 200)
13C2 PFUnA	60	(50 - 200)
13C2 PFDoA	65	(50 - 200)

## NOTE(S) :

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

## Dalton Utilities

Client Sample ID: DUP #4

## HPLC

Lot-Sample #....: D9II180169-019      Work Order #....: LK3DR1AA      Matrix.....: WATER  
 Date Sampled....: 09/17/09      Date Received...: 09/18/09  
 Prep Date.....: 09/20/09      Analysis Date...: 09/24/09  
 Prep Batch #....: 9263042      Analysis Time...: 09:32  
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0098
Perfluorooctanesulfonate	ND	0.020	ug/L	0.013
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0098
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.011
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0029
Perfluorohexanoic acid (PFHpA )	ND	0.020	ug/L	0.013
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.017
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0078
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0069
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.015
Perfluorotridecanoic acid (PFT riaA)	ND	0.020	ug/L	0.018
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.015
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0082
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0070

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	94	(50 - 200)
13C4 PFOS	63	(50 - 200)
13C4 PFBA	81	(50 - 200)
13C2 PFHxA	86	(50 - 200)
18O2 PFHxS	79	(50 - 200)
13C5 PFNA	79	(50 - 200)
13C2 PFDA	61	(50 - 200)
13C2 PFUnA	54	(50 - 200)
13C2 PFDoA	52	(50 - 200)

Dalton Utilities

Client Sample ID: DUP #4

HPLC

Lot-Sample #....: D9II180169-019    Work Order #....: LK3DR1AC    Matrix.....: WATER  
Date Sampled....: 09/17/09    Date Received...: 09/18/09  
Prep Date.....: 09/21/09    Analysis Date...: 09/25/09  
Prep Batch #....: 9264543    Analysis Time...: 02:41  
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F-OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	29 *	(50 - 200)	

**NOTE (S) :**

\* Surrogate recovery is outside stated control limits.